Major Sponsors:

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Collaborators:

American River Parkway Foundation
American River Natural History Association

EDAW

EIS, Inc.

Flood Plain Management Association
Groundwater Resources Association of California

Jones and Stokes

MBK Engineers

Sacramento County

Save the American River Association Sierra College Natural History Museum

			Lower American River Science Conference
8:00	-	9:00 am	Registration
9:00	-	10:15 am	Welcome and Opening Remarks University Ballroom I Plenary Session
10:15	_	10:30 am	Break University Ballroom II
10:30	_	12:00 pm	Plenary Session
12:00	_	1:00 pm	Luncheon
1:00	-	2:30 pm	Concurrent Theme Sessions Groundwater Session. University Ballroom III Fish Session. Hinde Auditorium
2:30	_	3:00 pm	Refreshment Break
3:00	_	4:30 pm	Concurrent Theme Session Groundwater Session
4:30	_	6:30 pm	Exhibit Viewing and Reception University Ballroom II
		6:30 pm	Adjourn
Friday, Jui	ne 6,	2003	
			Lower American River Science Conference
7:30	-	8:30 am	Registration
8:30	-	10:00 am	Concurrent Theme Sessions Groundwater Session
10:00	_	10:20 am	Break/Exhibit Viewing University Ballroom II
10:20	-	11:50 am	Concurrent Theme Sessions Groundwater Session
11:50	_	1:00 pm	Luncheon
1:00	-	2:00 pm	Concurrent Theme Sessions Groundwater Session
2:00	_	2:30 pm	Refreshment Break/Exhibit Viewing University Ballroom II
2:30	_	3:30 pm	Plenary Session
3:30	_	3:45 pm	Conference Feedback
		3:45 pm	Conference Adjourn
			2003 California Weather Symposium:
Fore	castin	g Extreme Pre	cipitation in the Sierra Nevada and Implications for the American River Watershed
7:30	-	8:30 am	Registration
8:30	_	10:00 am	General Session Redwood Room
10:00	-	10:20 am	Break/Exhibit Viewing University Ballroom II
10:20	-	11:50 am	General Session Redwood Room
11:50	-	1:00 pm	Luncheon
1:00	_	2:00 pm	General Session Redwood Room
2:00	-	2:30 pm	Refreshment Break/Exhibit Viewing University Ballroom II
2:30	-	3:30 pm	General Session Redwood Room
3:30	_	3:45 pm	Symposium Feedback Redwood Room

Symposium Adjourn

3:45 pm

CONFERENCE AGENDA

<u>Thursday, June 5, 2003</u>

8:00 — 9:00 am	Registration
	Continental Breakfast University Ballroom II
9:00 — 9:10 am	Welcome and Opening Remarks
9:10 — 9:30 am	Connecting the Dots: Fish, Groundwater and Weather
9:30 -10:15 am	Hydrostratigraphy and Contaminant Transport Phenomena Beneath Rancho Cordova and Vicinity
10:15 -10:30 am	Break
10:30 —11:15 am	Fish of the American River: An Overview
11:15 -12:00 pm	Lower American River in the Context of the American River Watershed
12:00 - 1:00 pm	Luncheon
1:00 - 2:30 pm	Concurrent Theme Sessions (See Below)

Groundw	ater Session
Groundwater	Characterization
(University	y Ballroom III)

Fish Session (Hinde Auditorium)

1:00 - 1:30 pm

Overview of Northern and Southern Sacramento Basin Hydrogeology Chris Petersen, Supervising Hydrogeologist, Montgomery Watson Harza

1:30 - 2:00 pm

Aquifer Response to Changes in Stage of the American River

Dave Evans, Associate Professor of Hydrogeology, California State University, Sacramento, Department of Geology

2:00 - 2:30 pm

Groundwater Modeling of Sacramento County

Ali Taghavi, Principal Hydrologist, Water Resources and
Information Management Engineering

1:00 - 1:30 pm

Evaluation of Salmonid Spawning Habitat and Implementation of a Habitat Improvement Project on the Lower American River Kris Vyverberg, Associate Engineering Geologist, California Department of Fish and Game

1:30 - 2:00 pm

Phase Three Assessment of Lower American River Salmonid Spawning Gravels

Tim Horner, Associate Professor, California State University, Sacramento, Department of Geology

2:00 - 2:30 pm

Past, Present, and Future Role of Nimbus Salmon and Steelhead Hatchery in Anadromous Fisheries Management of the American River

Armando Quiñones, Senior Hatchery Supervisor; Terry West, Fish Hatchery Manager; Chuck Knutson, State Fish Hatchery Coordinator, California Department of Fish and Game

2:30 — 3:00 pm Refreshment Break University Ballroom II

Thursday, June 5, 2003

Concurrent Theme Sessions (Continued)

4:30 - 6:30 pm

6:30 pm

Adjourn

Groundwater Session Groundwater Quality (University Ballroom III)	Fish Session (Hinde Auditorium)
3:00 - 3:30 pm	3:00 - 3:30 pm
Contaminated Sites in the NA and SA Basins Ned Clayton, SKS	Distribution and Relative Importance of Hatchery and Wild Salmon: Lessons from Intensive Studies on the Feather River
3:30 – 4:00 pm Aerojet Groundwater Remediation	Brad Cavallo, Environmental Scientist, California Department of Water Resources
Rodney Fricke, Environmental Manager, Aerojet	3:30 - 4:00 pm
4:00 — 4:30 pm	Lower American River Snorkel Survey (Winter – Spring 2003)
Groundwater Quality Issues in the Middle Lower American River Area Richard Shatz, Principal Hydrogeologist, Bookman Edmonston	Tom Cannon, Executive Director, Fishery Foundation 4:00 - 4:30 pm Growth and Survival of Juvenile Steelhead Relative to Flow and Temperature Conditions on the

Lower American River

Exhibit Viewing and Reception University Ballroom II

Rob Titus, Staff Environmental Scientist, California Department of Fish and Game CONFERENCE AGENDA

CONFERENCE AGENDA

Friday, June 6, 2003	
•	University Ballroom Foyer liewing University Ballroom II Below)
Groundwater Session Groundwater Supply, Management, and Policy (University Ballroom III)	Fish Session (Hinde Auditorium)
8:30 — 9:00 am	8:30 — 9:00 am
Sacramento Groundwater Authority Basin Management Tools Jon Goetz, Supervising Engineer, Montgomery Watson Harza 9:00 – 9:30 am Water Forum Overview and Sustainable Yield Jim McCormack, Consultant, Water Forum Successor Effort 9:30 –10:00 am Central County Groundwater Forum Larry Norton, Senior Mediator, Center for Collaborative Policy 10:00 –10:20 am Break/Exhibit Viewing	Homogenization of Fall-Run Chinook Salmon Gene Pools in the Central Valley Kevin Williamson, Research Assistant, University of California, Davis, Genomic Variation Lab 9:00 – 9:30 am Does Stranding Matter? Juvenile Salmon Rearing and Emigration from the Yolo Bypass Floodplain Ted Sommer, Senior Environmental Specialist, California Department of Water Resources 9:30 –10:00 am Overview of Chinook Salmon Ecology in the Lower American River Rob Titus, Staff Environmental Scientist, California Department of Fish and Game University Ballroom II
Groundwater Session	Fish Session

Groundwater Supply, Management, and Policy (University Ballroom III)

10:20 -10:50 am

Sacramento County Water Agency and Zone 40 Darrell Eck, Senior Civil Engineer, Sacramento County Water Agency

10:50 -11:20 am

Update on the SWRCB Hearing on the Lower American River Fully Allocated Stream Filing for Reopening Michael Fife, Attorney, Hatch & Parent

Groundwater Session Conjunctive Use of Surface Water and Groundwater (University Ballroom III)

11:20 -11:50 am

Overview of Basin Conjunctive Use Opportunities Carl Hauge, Chief Hydrologist, Department of Water Resources

(Hinde Auditorium)

10:20 -10:50 am

Otolith Based Studies on the Life History of Chinook Salmon from the Central Valley Chris Donohoe, Research Associate, National Oceanic and Athmospheric Admistration

10:50 -11:20 am

Integrating Ecological Concerns into Operation of the Lower American River

Dave Robinson, Environmental Specialist, US Bureau of Reclamation

11:20 -11:50 gm

American River Steelhead Spawning John Hannon, Fisheries Biologist, US Bureau of Reclamation

11:50 - 1:00 pm Luncheon. University Ballroom II

Friday, June 6, 2003

Concurrent Theme Sessions (Continued)

Conjunctive Use of	oundwater Session Surface Water and Groundwater versity Ballroom III)	Fish Session (Hinde Auditorium)
1:00 – 1:30 pm North Area Groundwater Basin Management: Challenges and Opportunities Ed Winkler, General Manager, Regional Water Authority 1:30 – 2:00 pm Sacramento County Recycling Program Ruben Robles, Senior Civil Engineer, Sacramento Regional County Sanitation District		1:00 - 1:30 pm Integration of Delta and American River Operations: Are We Burning the Candle at Both Ends? Jim White, Staff Environment Specialist, California Department of Fish and Game 1:30 - 2:00 pm Ocean CWT Recovery Program, How It Works and Recent American River CWT Harvest in Ocean Fisheries: • What data are required to estimate ocean harvest rates on American River stocks? • How low mark rates coupled with low sample rates can have a large influence on ocean fishery management. Allen Grover, Senior Scientist, California Department of Fish and Game
2:00 - 2:30 pm 2:30 - 3:30 pm	Future Work: How Do We Balance Lower American River? Moderator: Carl Hauge, Chief Hydrolo Panel: Groundwater and Conjunctive Use Tim Parker, Senior Engineerin Flood Control Proponent: Tim Washburn, Agency Cour Aquatic Habitat Proponent: Felix Smith, Director, Save the	gist, Department of Water Resources
3:30 - 3:45 pm	Ed Winkler, General Manage	r, Regional Water Authority University Ballroom I

Conference Adjourn

3:45 pm

CONFERENCE AGENDA

<u>Friday, June 6, 2003</u>

2003 California Weather Symposium:

7 10 0	– 8:30 am	Registration
8:30	– 8:35 am	Welcome Redwood Room
		Gary Estes, Floodplain Management Association
8:35	- 9:00 am	Connecting the Dots: Fish, Groundwater, and Weather Redwood Room Tim Washburn, General Counsel, Sacramento Area Flood Control Agency, Sacramento, CA
9:00	- 9:30 am	Extreme Precipitation Redwood Room
		Maurice Roos, P.E., Chief Hydrologist, Division of Flood Management, California Department of Water Resources, Sacramento, CA
9:30	-10:00 am	The Potential for Adaptive Reservoir Operations
		Provided by Forecast Information Redwood Room
		Beth Faber, PhD, Research Hydrologic Engineer, Hydrologic Engineering Center, US Army Corps of Engineers, Davis, CA
0:00	-10:20 am	Break/Exhibit Viewing University Ballroom II
0:20	-10:50 am	Operating Folsom Dam Using Weather Forecasts Redwood Room
		Paul Pugner, P.E., Chief, Water Management Section, US Army Corps of Engineers, Sacramento, CA
0:50	-11:20 am	Precipitation Structure in the Sierra Nevada During Winter Redwood Room
		Dan Cayan, PhD, Climate Research Division, Scripps Institute of Oceanography, University of California, San Diego, San Diego, CA
1:20	-11:50 am	What is our Current Understanding of the Factors Governing Extreme Precipitation in the Sierra Nevada and
		How Predictable are Such Events? Redwood Room
		Norman "Wes" Junker, Senior Forecaster, Forecast Operation Branch, Hydrometeorological Prediction Center, National Weather Service, Camp Springs, MD
1:50	– 1:00 pm	Luncheon
1:00	– 1:30 pm	Characterizing Precipitation Forecast Errors for the Folsom Lake Watershed Redwood Room
		Theresa Carpenter, P.E., Hydrologic Engineer, Hydrologic Research Center, San Diego, CA
1:30	– 2:00 pm	Extreme Precipitation on the American River Watershed:
	-	Strategies for Improving Redwood Room
		F. Martin "Marty" Ralph, PhD, Chief, Regional Water and Climate Application Division Environmental
		Technology Laboratory, National Oceanography and Atmospheric Administration, Boulder, CO

Friday, June 6, 2003

2003 California Weather Symposium:

Forecasting Extreme Precipitation in the Sierra Nevada and Implications for the American River Watershed

	Forecasting of Extreme Precipitation in the Sierra Nevada? Redwood Room Moderator: Elissa Lynn, Meteorologist, News 10 KXTV, Sacramento, CA Panel: Norman "Wes" Junker, Senior Forecaster, Forecast Operation Branch, Hydrometeorological
	Prediction Center, National Weather Service, Camp Springs, MD F. Martin "Marty" Ralph, PhD, Chief, Regional Water and Climate Application Division Environmental Technology Laboratory, National Oceanography and Atmospheric Administration, Boulder, CO
	J. Owen Rhea, PhD, Senior Hydrometeorological Analysis and Support Forecaster (Retired), California-Nevada River Forecast Center, National Weather Service, Sacramento, CA
3:30 - 3:45 pm	Symposium Feedback Redwood Room
3:45 pm	Symposium Adjourn

SYMPOSIUM AGENDA